

“(B) is owned by a parent company incorporated in another country and the Director finds that—

“(i) the company’s participation in the Technology Innovation Program would be in the economic interest of the United States, as evidenced by—

“(I) investments in the United States in research and manufacturing (including the manufacture of major components or subassemblies in the United States);

“(II) significant contributions to employment in the United States; and

“(III) agreement with respect to any technology arising from assistance provided under this section to promote the manufacture within the United States of products resulting from that technology (taking into account the goals of promoting the competitiveness of United States industry); and

“(ii) the company is incorporated in a country which—

“(I) affords to United States-owned companies opportunities, comparable to those afforded to any other company, to participate in any joint venture similar to those receiving funding under this section;

“(II) affords to United States-owned companies local investment opportunities comparable to those afforded any other company; and

“(III) affords adequate and effective protection for the intellectual property rights of United States-owned companies;

“(2) the term ‘institution of higher education’ has the meaning given that term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001);

“(3) the term ‘joint venture’ means a joint venture that—

“(A) includes either—

“(i) at least 2 separately owned for-profit companies that are both substantially involved in the project and both of which are contributing to the cost-sharing required under this section, with the lead entity of the joint venture being one of those companies that is a small or medium-sized business; or

“(ii) at least one small or medium-sized business and one institution of higher education or other organization, such as a national laboratory or nonprofit research institute, that are both substantially involved in the project and both of which are contributing to the cost-sharing required under this section, with the lead entity of the joint venture being either that small or medium-sized business or that institution of higher education; and

“(B) may include additional for-profit companies, institutions of higher education, and other organizations, such as national laboratories and nonprofit research institutes, that may or may not contribute non-Federal funds to the project; and

“(4) the term ‘TIP Advisory Board’ means the advisory board established under subsection (j).”

SEC. 205. RESEARCH FELLOWSHIPS.

Section 18 of the National Institute of Standards and Technology Act (15 U.S.C. 278g–1) is amended by striking “up to 1 per centum of the” and inserting “up to 1.5 percent of the”.

SEC. 206. COLLABORATIVE MANUFACTURING RESEARCH PILOT GRANTS.

The National Institute of Standards and Technology Act is amended—

(1) by redesignating the first section 32 (15 U.S.C. 271 note) as section 34 and moving it to the end of the Act; and

(2) by inserting before the section moved by paragraph (1) the following new section:

“SEC. 33. COLLABORATIVE MANUFACTURING RESEARCH PILOT GRANTS.

“(a) AUTHORITY.—

“(1) ESTABLISHMENT.—The Director shall establish a pilot program of awards to partnerships among participants described in paragraph (2) for the purposes described in para-

graph (3). Awards shall be made on a peer-reviewed, competitive basis.

“(2) PARTICIPANTS.—Such partnerships shall include at least—

“(A) 1 manufacturing industry partner; and

“(B) 1 nonindustry partner.

“(3) PURPOSE.—The purpose of the program under this section is to foster cost-shared collaborations among firms, educational institutions, research institutions, State agencies, and nonprofit organizations to encourage the development of innovative, multidisciplinary manufacturing technologies. Partnerships receiving awards under this section shall conduct applied research to develop new manufacturing processes, techniques, or materials that would contribute to improved performance, productivity, and competitiveness of United States manufacturing, and build lasting alliances among collaborators.

“(b) PROGRAM CONTRIBUTION.—Awards under this section shall provide for not more than one-third of the costs of a partnership. Not more than an additional one-third of such costs may be obtained directly or indirectly from other Federal sources.

“(c) APPLICATIONS.—Applications for awards under this section shall be submitted in such manner, at such time, and containing such information as the Director shall require. Such applications shall describe at a minimum—

“(1) how each partner will participate in developing and carrying out the research agenda of the partnership;

“(2) the research that the grant would fund; and

“(3) how the research to be funded with the award would contribute to improved performance, productivity, and competitiveness of the United States manufacturing industry.

“(d) SELECTION CRITERIA.—In selecting applications for awards under this section, the Director shall consider at a minimum—

“(1) the degree to which projects will have a broad impact on manufacturing;

“(2) the novelty and scientific and technical merit of the proposed projects; and

“(3) the demonstrated capabilities of the applicants to successfully carry out the proposed research.

“(e) DISTRIBUTION.—In selecting applications under this section the Director shall ensure, to the extent practicable, a distribution of overall awards among a variety of manufacturing industry sectors and a range of firm sizes.

“(f) DURATION.—In carrying out this section, the Director shall run a single pilot competition to solicit and make awards. Each award shall be for a 3-year period.”

SEC. 207. MANUFACTURING FELLOWSHIP PROGRAM.

Section 18 of the National Institute of Standards and Technology Act (15 U.S.C. 278g–1) is amended—

(1) by inserting “(a) IN GENERAL.—” before “The Director is authorized”; and

(2) by adding at the end the following new subsection:

“(b) MANUFACTURING FELLOWSHIP PROGRAM.—

“(1) ESTABLISHMENT.—To promote the development of a robust research community working at the leading edge of manufacturing sciences, the Director shall establish a program to award—

“(A) postdoctoral research fellowships at the Institute for research activities related to manufacturing sciences; and

“(B) senior research fellowships to established researchers in industry or at institutions of higher education who wish to pursue studies related to the manufacturing sciences at the Institute.

“(2) APPLICATIONS.—To be eligible for an award under this subsection, an individual shall submit an application to the Director at such time, in such manner, and containing such information as the Director may require.

“(3) STIPEND LEVELS.—Under this subsection, the Director shall provide stipends for postdoctoral research fellowships at a level consistent with the National Institute of Standards and Technology Postdoctoral Research Fellowship Program, and senior research fellowships at levels consistent with support for a faculty member in a sabbatical position.”

SEC. 208. MEETINGS OF VISITING COMMITTEE ON ADVANCED TECHNOLOGY.

Section 10(d) of the National Institute of Standards and Technology Act (15 U.S.C. 278(d)) is amended by striking “quarterly” and inserting “twice each year”.

TITLE III—MISCELLANEOUS

SEC. 301. POST-DOCTORAL FELLOWS.

Section 19 of the National Institute of Standards and Technology Act (15 U.S.C. 278g–2) is amended by striking “nor more than 60 new fellows” and inserting “nor more than 120 new fellows”.

SEC. 302. FINANCIAL AGREEMENTS CLARIFICATION.

Section 2(b)(4) of the National Institute of Standards and Technology Act (15 U.S.C. 272(b)(4)) is amended by inserting “and grants and cooperative agreements,” after “arrangements.”

SEC. 303. WORKING CAPITAL FUND TRANSFERS.

Section 12 of the National Institute of Standards and Technology Act (15 U.S.C. 278b) is amended by adding at the end the following:

“(g) AMOUNT AND SOURCE OF TRANSFERS.—Not more than one-quarter of one percent of the amounts appropriated to the Institute for any fiscal year may be transferred to the fund, in addition to any other transfer authority. In addition, funds provided to the Institute from other Federal agencies for the purpose of production of Standard Reference Materials may be transferred to the fund.”

SEC. 304. RETENTION OF DEPRECIATION SURCHARGE.

Section 14 of the National Institute of Standards and Technology Act (15 U.S.C. 278d) is amended—

(1) by inserting “(a) IN GENERAL.—” before “Within”; and

(2) by adding at the end the following:

“(b) RETENTION OF FEES.—The Director is authorized to retain all building use and depreciation surcharge fees collected pursuant to OMB Circular A–25. Such fees shall be collected and credited to the Construction of Research Facilities Appropriation Account for use in maintenance and repair of the Institute’s existing facilities.”

SEC. 305. NON-ENERGY INVENTIONS PROGRAM.

Section 27 of the National Institute of Standards and Technology Act (15 U.S.C. 278m) is repealed.

SEC. 306. REDEFINITION OF THE METRIC SYSTEM.

Section 3570 of the Revised Statutes of the United States (derived from section 2 of the Act of July 28, 1866, entitled “An Act to authorize the Use of the Metric System of Weights and Measures”) (15 U.S.C. 205; 14 Stat. 339) is amended to read as follows:

“SEC. 3570. METRIC SYSTEM DEFINED.

“The metric system of measurement shall be defined as the International System of Units as established in 1960, and subsequently maintained, by the General Conference of Weights and Measures, and as interpreted or modified for the United States by the Secretary of Commerce.”

SEC. 307. REPEAL OF REDUNDANT AND OBSOLETE AUTHORITY.

The Act of July 21, 1950, entitled “An Act To redefine the units and establish the standards of electrical and photometric measurements” (15 U.S.C. 223 and 224) is repealed.

SEC. 308. CLARIFICATION OF STANDARD TIME AND TIME ZONES.

(a) Section 1 of the Act of March 19, 1918, (commonly known as the “Calder Act”) (15 U.S.C. 261) is amended—